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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/827,558	04/19/2004	Leonard S. Schultz	6749.05	3428

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EXAMINER
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TUCKER, WESLEY J

ART UNIT	PAPER NUMBER
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2624

MAIL DATE	DELIVERY MODE
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12/17/2008

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/827,558	<b>Applicant(s)</b> SCHULTZ, LEONARD S.	
	<b>Examiner</b> WESLEY TUCKER	<b>Art Unit</b> 2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 10 September 2008.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 43-58 and 75-84 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 43-58 and 75-84 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 19 April 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All    b) ☐ Some \*    c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Amendment***

1. Applicant's response filed September 10<sup>th</sup> 2008 has been entered and made of record.

2. Applicant has not amended any claims. Claims 1-42 and 59-74 are cancelled. Claims 43-58 and 75-84 remain pending.

3. Applicant's arguments in view of the presented rejection have been considered but are not found to be persuasive for at least the following reasons:

Applicant argues that the combination of Cullen, Stubler and Shipp does not disclose the recited claims and that the combination of the references is improper. Examiner disagrees. What is essentially claimed in the recited independent claims is a library or database of images and associated texts. When new images are received, those images are compared to existing images and according to the comparison results the new image is grouped with the text associated with the best matching image. Cullen, Stubler and Shipp are all directed to the very well known practice of grouping and storing images and associated text and are therefore all essentially directed to the same field of endeavor.

Applicant argues that Cullen discloses how to annotate images using text zones from a document, so therefore one of ordinary skill in the art would not be inclined to turn to Stubler to determine how to annotate images and therefore the combination of Cullen and Stubler is improper. Examiner disagrees. Cullen teaches text associated

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with the images, which is essentially metadata. Stubler also teaches text associated with images as well as other metadata. What Stubler is relied upon to teach is associating the images and metadata to new images when similarity is determined. Stubler discloses a method of generating captions or text annotations for an image database as the images are entered into the database. Stubler discloses performing both low-level and high-level image processing to categorize images in order that the images can be compared with images already in the database (column 5, lines 19-36, column 6, lines 7-54 and column 7, lines 25-30). When the images are entered in the database for the first time they are compared with other images already in the database and when a match of a certain degree is determined, the newly entered images are annotated with the pre-existing text or captions associated with the images already in the database (column 8, lines 18-39). Stubler is cited to teach the claimed limitation of ***wherein upon receipt of a new image, the microprocessor compares the new image to the stored images*** (column 5, lines 19-36, column 6, lines 7-54 and column 7, lines 25-30) ***and selects for inclusion in a () record the stored text associated with the stored image that is most similar to the new image*** (column 8, lines 18-39). Stubler discloses determining similarity of new images to already stored images and this is interpreted as the stored image that is most similar to the new image.

It would have been obvious to one of ordinary skill in the art to enter the image documents and annotations into a database as taught by Stubler in combination with the database of Cullen in order that the image documents be entered and tagged in such a way that would group the images as taught by both Cullen and Stubler for better

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categorization and searching of the database. Cullen and Stubler are combinable because they are both directed to storing images and associated text in an organized fashion. This is a well known motivation to one of ordinary skill in the art.

Applicant further argues the use of the third reference to Shipp. Shipp is only cited to teach image and text storage in the field of medical records. It would be obvious to one of ordinary skill in the art to use the text and image association and storage of the references to Cullen and Stubler in the field of medical records. Shipp simply illustrates similar storage in the field of medical records.

Applicant further argues that the Examiner has used improper hindsight reasoning in combining the cited references. Examiner respectfully disagrees. The motivation for storing images with associated text and for matching images to other similar images is not a novel concept. Anyone reasonably skilled in the art of image storage and classification understands the need and motivation to store images in such an organized fashion. The concept of linking images and associated text by comparing images to existing images is thoroughly illustrated in the cited references. No hindsight is needed to store images with like images and associated text. The rejection in view of the cited references is therefore maintained and remains FINAL.

### ***Double Patenting***

4. Applicant has filed Terminal Disclaimer in response to previously presented non-statutory obviousness-type double patenting rejection in view U.S.

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Patent No. 6,735,329 to Shultz. The Double Patenting rejection is accordingly withdrawn.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 43-45, 47-51-58, 75-82 and 84 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of U.S. Patents 6,397,213 to Cullen et al. and 6,804,684 to Stubler et al. and 6,031,526 to Shipp

With regard to claim 43, Cullen discloses ***a device for providing a text related to an image, comprising:***

***A microprocessor*** (column 3, line 27);

***A library of stored images*** (database 222); ***and***

***A library of stored texts*** (database 222), ***wherein each of the stored texts is associated with at least one of the stored images*** (column 3, lines 49- column 4, lines 1-65, Cullen discloses dividing the image document into zones representing the image portions and/or text portions. The text is associated with the image by attaching a caption or the header as discussed in column 4, lines 1-6).

Cullen discloses that the image division into zones and the annotation is typically performed as the documents are entered into the database or in other words upon receipt of a new image. Cullen does not go into detail about how the image portions are annotated when they are first entered into the database. Stubler discloses a method of generating captions or text annotations for an image database as the images are entered into the database. Stubler discloses performing both low-level and high-level image processing to categorize images in order that the images can be compared with images already in the database (column 5, lines 19-36, column 6, lines 7-54 and column 7, lines 25-30). When the images are entered in the database for the first time they are compared with other images already in the database and when a match of a certain degree is determined, the newly entered images are annotated with the pre-existing text or captions associated with the images already in the database (column 8, lines 18-39). Therefore Stubler discloses the claimed feature of ***wherein upon receipt of a new image, the microprocessor compares the new image to the stored images*** (column 5, lines 19-36, column 6, lines 7-54 and column 7, lines 25-30) ***and selects for inclusion in a () record the stored text associated with the stored image that is most similar to the new image*** (column 8, lines 18-39). It would have been obvious to one of ordinary skill in the art to enter the image documents and annotations into a database as taught by Stubler in combination with the database of Cullen in order that the image documents be entered and tagged in such a way that would group the images as taught by both Cullen and Stubler for better categorization and searching of the database.

Neither Stubler nor Cullen explicitly teaches that the database is that of medical records. Shipp teaches the use of combining images and text to create medical records to be stored (column 4, lines 1-10). It would have been obvious to one of ordinary skill in the art at the time of invention to use the combined database and database creation taught by Cullen and Stubler to store medical records in order to make the records more organized and searchable.

With regard to claim 44, Cullen discloses ***wherein the new image, stored images and stored texts are digital*** (Figs. 1 and 2A, the images and texts are scanned into digital form).

With regard to claim 45, Cullen discloses ***wherein the microprocessor uses digital image recognition to identify the one of the stored images that is most similar to the new image*** (col. 3, lines 24-39). Stubler also discloses digital image recognition for identifying similar images (column 7, lines 24-29 and column 5, lines 20-35 and column 6, lines 6-54).

With regard to claim 47, the discussion of claim 43 applies. Shipp discloses that the medical record is concerned with recording images of a procedure (column 2, lines 29-37).



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With regard to claim 48, Shipp discloses that the procedures are performed by a surgeon and are thus judged to be surgical procedures (column 4, lines 1-10).

With regard to claim 49, the discussion of claim 45 applies.

With regard to claim 50, Shipp discloses that the images are real-time (column 3, lines 12-20).

With regard to claim 51, the discussions of claim 43, 45 and 47 apply.

With regard to claim 52, Cullen, Stubler and Shipp all disclose that the stored text is descriptive of the new image. See Cullen (column 4, lines 30-39), Stubler (column 5, lines 20-36), and Shipp (column 4, lines 1-10).

With regard to claim 53, the discussion of claim 44 applies.

With regard to claim 54, Cullen discloses means for communication the images and texts (network interface 144, column 3, line 33).

With regard to claim 55, Shipp discloses wherein the images depict aspects of medical procedures (column 3, lines 13-27).

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With regard to claim 56, the discussion regarding claim 43 applies. Cullen and Stubler disclose matching of images and text in databases and Shipp teaches combining video images and text descriptions into a digital image record of a surgical procedure. These kinds of records would be compatibly searched and matched by the combination taught by Cullen and Stubler.

With regard to claim 57, and 58, Cullen and Stubler and Shipp disclose capturing and processing multiple images, processing those images and using them to create a database.

With regard to claim 75, the discussion of claim 43 applies.

With regard to claims 76-80, the discussions of claims 43-46 apply.

With regard to claim 81, the discussion of claim 43 applies.

With regard to claims 82 the discussion of claim 43 applies.

With regard to claim 84, the discussion of claim 43 applies.

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6. Claims 46 and 83 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combination of U.S. Patents 6,397,213 to Cullen et al., 6,804,684 to Stubler et al., 6,031,526 to Shipp 6,539,617 to Prokoski

With regard to claim 46, the combination of Cullen, Stubler and Shipp disclose the method of claim 43, but do not disclose the ***wherein, when no stored image is similar to the new image, the microprocessor generates a signal to indicate that no match has been identified.*** When attempting to match an image, it very well known in the art to indicate no match when the matching process fails. Prokoski discloses matching medical images and teaches the use of a failure to match signal (column 16, lines 41-45). Therefore it would have been obvious to one of ordinary skill in the art at the time of invention to use the signal indicating no match has been found as taught by Prokoski in combination with the image matching processing taught by Cullen and Stubler for use with the medical images of Shipp in order to determine when no match was achieved.

#### ***Contact Information***

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to WESLEY TUCKER whose telephone number is (571)272-7427. The examiner can normally be reached on 9AM-5PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matt Bella can be reached on 571-272-7778. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Wes Tucker/  
Examiner, Art Unit 2624